

California Energy Commission

STAFF REPORT

LOCALIZED HEALTH IMPACTS REPORT

Addendum 3 for a Selected Project Awarded Funding
Through the Alternative and Renewable Fuel and Vehicle
Technology Program Under Solicitation PON-11-602 –
Alternative Fuels Infrastructure: Electric, Natural Gas,
Propane, E85, and Diesel Substitutes Terminals

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ADDENDUM 3

The *Localized Health Impacts (LHI) Report for Selected Projects Awarded Funding Through the Alternative and Renewable Fuel and Vehicle Technology Program Under Solicitation PON-11-602 – Alternative Fuels Infrastructure: Electric, Natural Gas, Propane, E85, and Diesel Substitutes Terminals* was posted on April 27, 2012.¹ The first addendum addresses the projects recommended for funding under the Notice of Proposed Awards (NOPA) – Round 2.² The second addendum addresses the location changes to the Pearson Fuels LLC (project proposal 11).³

This addendum reports on and assesses the potential localized health impacts of three direct current (DC) fast-charging stations recommended for funding. The South Coast Air Quality Management District (SCAQMD) plans to install three stations:

- 25872 Muirlands Blvd., Mission Viejo, California, in the Albertson's™ market parking lot (proposal #106)
- 2230 South Atlantic Blvd., Monterey Park, California, in the Atlantic Square Shopping Center parking lot (proposal #107)
- 330 North Atlantic Blvd., Monterey Park, California, in the Ralph's™ market parking lot) (proposal #108)

This addendum applies the same assessment approach as was used in the LHI report posted in April 2012.⁴ The proposed sites are located in nonattainment zones for ozone particulate matter (PM) (2.5) and PM (10), and two are in a community considered to be at risk (Table 1).⁵

1 Baronas, Jean. *Localized Health Impacts Report*. California Energy Commission, Fuels and Transportation Division (FTD). Publication Number: CEC-600-2012-004, April, 2012.

2 Law, Eric, Sarah Williams, *Localized Health Impacts Report Addendum 1*. California Energy Commission, FTD. Publication Number: CEC-600-2012-004-AD, September, 2012.

3 Williams, Sarah. *Localized Health Impacts Report Addendum 2*. California Energy Commission, FTD. Publication Number: CEC-600-2012-004-AD2, November, 2012.

4 Baronas, Jean. *Localized Health Impacts Report*. California Energy Commission, FTD. Publication Number: CEC-600-2012-004, April, 2012.

5 "Particulate matter" is unburned fuel particles that forms smoke or soot and stick to lung tissue when inhaled.

Table 1: Community Status and Project Overview

Project	At-Risk Community	CEQA Completed	Air District Permit Status	Attainment Status for Ozone, PM (2.5), PM (10)
Mission Viejo	No	In Process	In Progress	Non-Attainment (All)
Monterey Park	Yes	In Process	In Progress	Non-Attainment (All)

Source: Energy Commission staff analysis

The air district's permitting process will ensure that the applicants comply with federal, state, and air district standards for the safety and health of the surrounding communities. Further, the recipients will conduct outreach to increase public awareness about the value of using electricity as a fuel and of using the DC fast chargers.

Location Analysis and Community Impacts

The location addresses and descriptions of the surroundings show similarities between the locations (Table 2) and compared with the assessment in the LHI Report (CEC-600-2012-004, April 2012) any local impacts would not be substantively different from those previously addressed.

Table 2: Addresses and Surroundings

Addresses	Surroundings (within a 1-mile radius)
25872 Muirlands Blvd., Mission Viejo	8 schools and 6 health care facilities
2230 South Atlantic Blvd., Monterey Park	6 schools and 7 health care facilities
330 North Atlantic Blvd., Monterey Park	7 schools and 7 health care facilities

Source: Energy Commission staff analysis

Staff identifies high-risk communities using the following factors: (1) those located in nonattainment air basins for ozone, PM 10 and PM 2.5, (2) those with high poverty, minority population, and/or unemployment rates, and (3) those with a high percentage of sensitive populations (under 5 years of age and over 65 years of age). Those designated as high-risk communities would be located in nonattainment air basins and have one or more of the other two factors.

The environmental justice indicators (EJ) are evaluated as follows. A minority EJ is indicated if a minority subset represents more than 30 percent of a given city's population. A minority EJ indicator exists in Monterey Park (Table 3). A poverty level EJ is indicated if a city's poverty level exceeds California's poverty level. An unemployment EJ is indicated if a given city's unemployment rate exceeds California's unemployment rate. An EJ indicator is noted for cities where the percentage of persons under 5 years of age or over 65 years of age is 20 percent higher than the average for the entire state. Table 3 shows only one EJ indicator. Table 4 provides additional demographic data where the projects will be located.

Table 3: Environmental Justice Indicators

City	Minority	Poverty Level	Unemployment Rate	Age
Mission Viejo				
Monterey Park	X			

Source: Energy Commission staff analysis

Table 4: Demographic Data⁶
(Percentage of total population)

	Mission Viejo	Monterey Park
Below poverty level	4.9	11.8
Ethnicity		
Black	1.3	0.4
American Indian or Alaskan Native	0.4	0.4
Asian or Pacific Islander	9.1	66.9
Hispanic	17.0	26.9
White	79.8	5.0
Age		
< 5 years	4.9	4.5
> 65 years	14.5	19.3
Unemployment rate	4.9	7.7

Sources: State of California, Employment Development Department (EDD) Labor Market Information Division and U.S. Department of Census

⁶ EDD.ca.gov and U.S. Census <http://quickfacts.census.gov/qfd/index.html> and <http://www.labormarketinfo.edd.ca.gov/Content.asp?pageid=133>

Based on the California Air Resources Board (ARB) *Proposed Screening Method*, which integrates data to identify communities with social vulnerability indicators that could be highly impacted by air pollution, it is expected that the communities would not be disproportionately impacted by the projects.⁷ The equipment installation and use will result in the increased use of non-polluting alternative fuels. Although the DC fast chargers are located within or close to a low-income community highly impacted by air pollution, they are not expected to result in any adverse health effects in the adjacent communities.

⁷ California ARB, *Air Pollution and Environmental Justice, Integrating Indicators of Cumulative Impact and Socio-Economic Vulnerability Into Regulatory Decision-Making*, 2010. (Sacramento, California) Contract authors: Manuel Pastor Jr., Ph.D., Rachel Morello-Frosch, Ph.D., and James Sadd, Ph.D.